

ABSTRACT OF THE DISCLOSURE

A method of determining a binding capacity of a surface, the method including providing the surface containing a reactive moiety; providing a fluorophore including a fluorescent moiety adapted to emit a detectable signal; reacting the fluorophore with the reactive moiety to form a linking bond between the fluorophore and the reactive moiety; cleaving a cleavable bond to liberate the fluorescent moiety; and detecting the detectable signal to determine the binding capacity of the surface.